



10/ 696 748

*AC*  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 6,887,896

Issued: May 3, 2005

Inventor: Beard et al.

Title: 7-[(7-ALKOXY)-CHROM-3-EN-6-YL]-  
HEPTATRIENOIC ACID AND 7-[(3-ALKOXY)-5,6-  
DIHYDRONAPHTHALEN-2-YL]-HEPTATRIENOIC  
ACID DERIVATIVES HAVING SERUM GLUCOSE  
REDUCING ACTIVITY

CERTIFICATE OF MAILING

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Branch, Commissioner for Patents, P.O. Box  
1450, Alexandria, VA 22313-1450 on

June 19, 2006

*Toni Whyte*  
Toni Whyte

June 19, 2006  
Date

LETTER BRINGING ATTENTION TO  
ERRORS IN PRINTED PATENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Upon reviewing the above-identified issued patent, minor errors came to the  
applicant's attention. These errors are of such minor nature that requesting a Certificate  
of Correction is not deemed necessary.

The errors are as follows:

Column 1, Line 51, (application page 2, line 10), "and (?) Okamura"  
should be -- and Okamura --

Column 72, Line 22, (application page 105, line 27), "ofethyl" should be --of ethyl--

Column 72, Line 43, (application page 106, line 15), "ofethyl" should be --of ethyl--

Column 72, Line 63, (application page 107, line 3), "ofethyl" should be --of ethyl--

Column 73, Line 15, (application page 107, line 17), "ofethyl" should be --of ethyl--

Column 95, Line 22, (application page 136, line 14), "070 g" should be --0.70 g--

Column 107, Line 32, (application page 159, line 25), "012 g" should be --0.12 g--

Column 125, Line 14, (application page 178, line 18), "tetrahydronaphthale-2ol"

should be -- tetrahydronaphthalen-2ol --

**Certificate  
JUN 26 2006  
of Correction**

**JUN 28 2006**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Respectfully Submitted:

By: Gabor L. Szekeres  
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ORIGINAL FILED



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Number: 6,887,896

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Inventor: Beard et al.

Title: 7-[(7-ALKOXY)-CHROM-3-EN-6-YL]-  
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Certificate of Corrections Branch, Commissioner for  
Patents, P.O. Box 1450, Alexandria, VA 22313-1450  
on June 19, 2006

Toni Whyte  
Toni Whyte

June 19, 2006  
Date

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT**  
**UNDER 37 CFR 1.322(a) FOR ERRORS MADE BY THE**  
**UNITED STATES PATENT AND TRADEMARK OFFICE**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

1. Attached in duplicate is Form PTO-1050 with at least one copy being suitable for printing.
2. The exact page and line number where the errors occur in the part are:

Column 4, Line 17, (application page 6, line 5), "shown un"  
should be --shown in--

Column 12, Line 54, (application page 21, line 3), "MinoxidilR"  
should be -- Minoxidil<sup>R</sup>--

Column 21, Line 48, (application page 32, line 27), "61)." should be --6H).--

Column 23, Line 3, (application page 35, line 10), "tetrahydro-2(]-pyrimidinone"  
should be -- tetrahydro-2(1H)-pyrimidinone --

Column 23, Line 20, (application page 35, line 24), "dichloropalladium (1)"  
should be -- dichloropalladium (II)--

**JUN 28 2006**

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Column 24, Line 17, (application page 37, line 20), "(Compound 16,355"  
should be -- (Compound 16, 355--

Column 25, Line 54, (application page 40, line 21), "2.742.84"  
should be --2.74-2.84--

Column 27, Line 7, (application page 43, line 3), "36.89" should be --δ 6.89--

Column 27, Line 30, (application page 43, line 19), "6.106.24"  
should be --6.10-6.24--

Column 28, Line 50, (application page 45, line 26), "2.642.75"  
should be --2.64-2.75--

Column 29, Line 46, (application page 47, line 20), "2.742.83"  
should be --2.74-2.83--

Column 29, Line 55, (application page 47, line 24), "dimethyl-2H-chromen-6yl)<sub>3</sub>"  
should be -- dimethyl-2H-chromen-6yl)-3--

Column 30, Line 20, (application page 48, line 22), "methoxy-22-dimethyl"  
should be -- methoxy-2,2-dimethyl --

Column 41, Line 10, (application page 59, line 23), "(s, 10H)"  
should be --(s, 1H)--

Column 41, Line 22, (application page 60, line 6), "(m, If,"  
should be -- m, 1H),--

Column 41, Line 32, (application page 60, line 13), "(s, if),"  
should be --(s, 1H),--

Column 41, Line 46, (application page 60, line 23), "(t, J 57.2 Hz, 3H)"  
should be --(t, J=7.2 Hz, 3H) --

Column 41, Line 55, (application page 61, line 1), "-78DC." should be -- -78°C --

Column 41, Line 63, (application page 61, line 7), "2.0μM" should be --2.0M --

Column 42, Line 12, (application page 61, line 20), "I-(Isopropyl)"  
should be -- I-(4-Isopropyl --

Column 42, Line 58, (application page 63, line 2), "(s, If),"  
should be --(s, 1H),--

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Column 45, Line 17-18, (application page 67, line 11-12), "Ethyl (2E)-2-fluoro-3-[(4-isopropyl-2,2-dimethyl-7yl)-but-2-enoate (Compound 73)" should be -- Ethyl (2E)-2-fluoro-3-[(4-isopropyl-2,2-dimethyl-7-propoxy-2*H*-chromen-6-yl)-but-2-enoate (Compound 73)--

Column 45, Line 45, (application page 68, line 6), "(s, 1 ul)," should be --(s, 1H),--

Column 45, Line 48, (application page 68, line 7), "(2E)<sub>3</sub>" should be --(2E)-3--

Column 46, Line 10, (application page 69, line 1), "Ethyl (2E)<sub>2</sub>-fluoro-3-(7-methoxy-2,2,4" should be -- Ethyl (2E)-2-fluoro-3-(7-methoxy-2,2,4--

Column 47, Line 35, (application page 71, line 13), "(m, 10H)" should be --(m, 1H)--

Column 48, Line 28, (application page 73, line 3), "11.0" should be --1.10--

Column 48, Line 50, (application page, line 18), "chromen-6yl)<sub>2</sub>" should be -- chromen-6yl)-2--

Column 51, Line 3, (application page 77, line 27), "6.50 (s, 1H, " should be --6.50 (s, 1H), --

Column 52, Line 48, (application page 81, line 1), "1.35 (s, 614)," should be --1.35 (s, 6H),--

Column 52, Line 66, (application page 81, line 14), "6.42 (s, 1 ul)," should be --6.42 (s, 1H),--

Column 53, Line 16, (application page 81, line 27), "(dd, J 15.5, 25.5 Hz, 1H)," should be --(dd, J =15.5, 25.5 Hz, 1H),--

Column 55, Line 23, (application page 85, line 24), "(in, 21), 2.05 (s, 31)" should be --(m, 2H), 2.05 (s, 3H),--

Column 55, Line 53, (application page 86, line 21), "(300 M-z" should be --(300 MHz--

Column 56, Line 8, (application page 87, line 12), "2.46" should be --2,4,6--

Column 57, Line 33, (application page 89, line 26), "11.25 br s, 1H)," should be --11.25 (br s, 1H),--

Column 58, Line 17, (application page 90, line 17), "ten-butyl" should be -- *tert*-butyl --

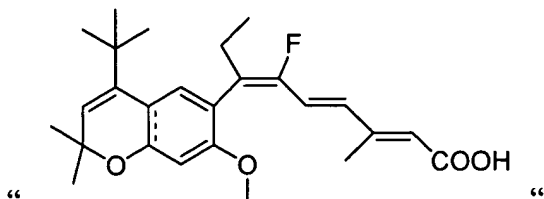
Column 58, Line 26, (application page 90, line 25), "2.402.60" should be --2.40-2.60--

Column 58, Line 40, (application page 91, line 9), "11.25 br s, 1H)," should be --11.25 (br s, 1H),--

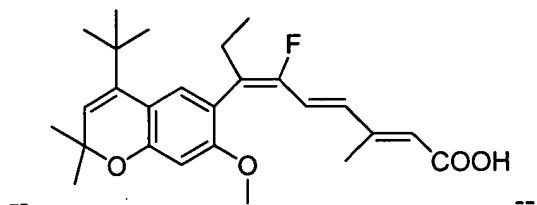
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Column 60, table 3, compound no. 121, RAR Bind. Ki nM under  $\beta$ , (application page 92, table 3, compound no.121, RAR Bind. Ki nM under  $\beta$ ), “46620”  
should be --4662(0)--???????

Column 63, compound no.131 in TABLE 3 (application page 93, compound no. 131)



should be



Column 67, Line 67, (application page 98, line 2), “(sept, 36.2 Hz”  
should be --(sept, J=6.2 Hz --

Column 68, Line 26, (application page 98, line 19), “2.842.87” should be --2.84-2.87--

Column 68, Line 36, (application page 99, line 22), “2.842.87” should be --2.84-2.87--

Column 70, Line 7, (application page 101, line 21), “3.984.02” should be --3.98-4.02--

Column 70, Line 7, (application page 101, line 22), “2.742.76” should be --2.74-2.76--

Column 70, Line 32, (application page 102, line 13), “1) and” should be -- ) and--

Column 71, Line 40, (application page 104, line 17), “(d, J=6.8Hz, 6-H),”  
should be --(d, J=6.8Hz, 6 H),--

Column 71, Line 42, (application page 104, line 19), “1.H),” should be --1 H),--

Column 71, Line 52, (application page 104, line 25), “0.101” should be --0.10--

Column 71, Line 57, (application page 105, line 3), “8 ppm” should be --  $\delta$  ppm--

Column 71, Line 59, (application page 105, line 4), “4.44-(sept,” should be --4.44 (sept,--

Column 72, Line 54, (application page 106, line 23), “6-Y1)” should be --6-yl)--

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Column 73, Line 23, (application page 107, line 23), "(m, 21H)," should be --(m, 2H),--

Column 73, Line 37, (application page 108, line 7), "66.83" should be --  $\delta$  6.83--

Column 74, Line 6, (application page 109, line 7), "(in, 1H)" should be --(m, 1H)--

Column 74, Line 7, (application page 109, line 7), "3.75-(s, 3H)"  
should be --3.75 (s, 3H)--

Column 74, Line 29, (application page 109, line 22), "7L(8)" should be --7-(8--

Column 74, Line 57, (application page 110, line 16), "7-isopropoxy-2,2-methyl"  
should be --4-isopropoxy-2,2-dimethyl --

Column 81, Line 55, (application page 118, line 5), "2(1)]-pyrimidinone"  
should be --2(1*H*)-pyrimidinone --

Column 82, Line 47, (application page 119, line 23), "J=0 Hz"  
should be -- J=10 Hz --

Column 83, Line 25, (application page 121, line 6), "General Procedure B"  
should be -- General Procedure B-1 --

Column 83, Line 59, (application page 122, line 6), "I=5Hz" should be -- J=5Hz --

Column 84, Line 33, (application page 123, line 11), "(s, 1H." should be --(s, 1H).--

Column 84, Line 52, (application page 123, line 26), "(s, 1H." should be --(s, 1H).--

Column 87, Line 46, (application page 127, after A-21), "33:1" should be --3.3 :1--

Column 91, Line 39, (application page 129, line 3), "7-bromo-ethoxy"  
should be --7-bromo-6-ethoxy --

Column 91, Line 58, (application page 129, line 18), "NH<sub>4</sub>C)" should be -- NH<sub>4</sub>Cl--

Column 94, Line 13, (application page 134, line 10), "(m. 2H)" should be --(m, 2H)--

Column 96, Line 1, (application page 137, line 23), "1-(4-dimethyl"  
should be --1-(4,4-dimethyl --

Column 96, Line 2, (application page 137, line 23), "isopropyl-3.,"  
should be -- isopropyl-3,4--

Column 96, Line 8, (application page 138, line 23), "palladium (1)"

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
should be -- palladium (II)--

Column 96, Line 12, (application page 138, line 5), “ $\delta$  60.39” should be --  $\delta$  0.39--

Column 96, Line 40, (application page 138, line 27), “In ol)” should be --mmol--

Column 98, Line 17, (application page 142, line 3-4), “0.67 (q, 2H, 32 4.5 Hz),”  
should be --0.67 (q, 2H, J=4.5 Hz),--

Column 98, Line 18, (application page 142, line 5), “2.14 ((d” should be --2.14 (d --

Column 98, Line 19, (application page 142, line 6), “3=6.5Hz” should be --J=6.5Hz--

Column 98, Line 41, (application page 142, line 21), “Ethyl (2E63”  
should be -- Ethyl (2E)-3--

Column 98, Line 45, (application page 142, line 23), “F-11” should be --F-1--

Column 99, Line 3, (application page 143, line 15), “60.89” should be --  $\delta$  0.89--

Column 99, Line 60, (application page 145, line 2), “(T, 2H)” should be --(m, 2H)--

Column 102, Line 7, (application page 149, line 4), “(Compound A-42)”  
should be --(Compound A-62)--

Column 102, Line 23, (application page 149, line 15), “dimethyl-(cyclopropyl)”  
should be -- dimethyl-6-(cyclopropyl)--

Column 103, Line 24, (application page 151, line 12), “(Compound A-47)”  
should be --(Compound A-67) --

Column 104, Line 3, (application page 152, line 21), “2,4.6” should be --2,4,6--

Column 104, Line 59, (application page 154, line 11), “3,44” should be --3,4--

Column 105, Line 3, (application page 154, line 20), “5:66” should be --5.66--

Column 105, Line 20, (application page 155, line 7), “J=36.5 Hz” should be --J=6.5 Hz--

Column 105, Line 26, (application page 155, line 12), “Ethyl (2E4E,6E)”  
should be -- Ethyl (2E,4E,6E)--

Column 105, Line 34, (application page 155, line 18), “0.011mL” should be --0.01mL --

Column 106, Line 14, (application page 157, line 4), “2,4.6” should be --2,4,6--



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Column 106, Line 31, (application page 157, line 19), "743-Ethoxy"  
should be --7-(3-Ethoxy --

Column 106, Line 58, (application page 158, line 15), "2.19-(m, 2H)"  
should be --2.19 (m, 2H)—

Column 106, Line 58, (application page 158, line 16), "2.40 (r q" should be --2.40 (br q --

Column 106, Line 63, (application page 158, line 19), "4,4-dimethylethoxy"  
should be --4,4-dimethyl-6-ethoxy --

Column 106, Line 64, (application page 158, line 20), "methyl-2.4"  
should be -- methyl-2,4--

Column 107, Line 26, (application page 159, line 18), "3-(4-dimethyl"  
should be --3-(4,4-dimethyl --

Column 107, Line 28, (application page 159, line 19), "2,4.6" should be --2,4,6--

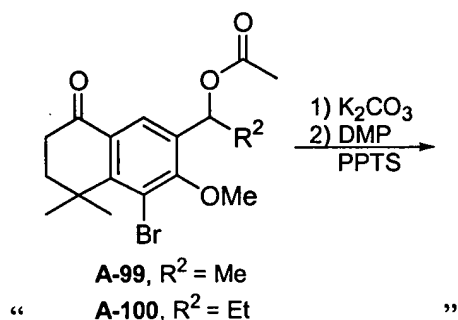
Column 107, Line 40, (application page 160, line 2), "7.02-(s, 1H)."  
should be --7.02 (s, 1H).--

Column 108, Line 19, (application page 160, line 20), "1.111 mmol"  
should be --1.11 mmol--

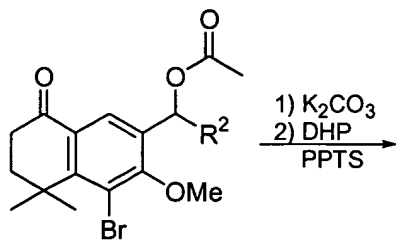
Column 108, Line 28, (application page 161, line 1), "(4,\$dimethyl"  
should be --(4,4-dimethyl --

Column 108, Line 36, (application page 161, line 8), "(t; 3H" should be --(t, 3H --

Column 114, Line 50, (application page 164, lin the reaction scheme in the third row



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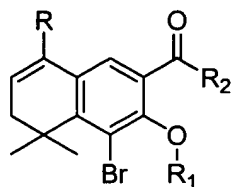
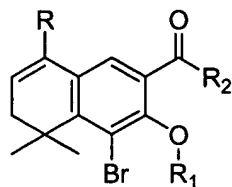
A-99, R<sup>2</sup> = Me

should be --

A-100, R<sup>2</sup> = Et

--

Column 115, Lines 36-40 in the reaction scheme, (application page 164, fourth row ),

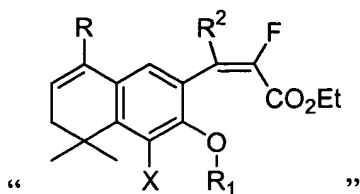
A-109, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=MeA-110, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=EtA-111, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-PrA-112, R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=MeA-113, R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=MeA-114, R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=MeA-115, R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me“ A-116, R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et ”A-109, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=MeA-110, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=EtA-111, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-PrA-112, R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=MeA-113, R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=MeA-114, R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=MeA-115, R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me

should be --

A-116, R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et

--

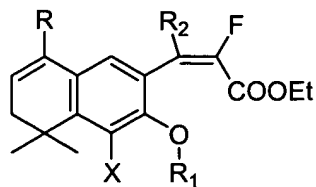
Column 117, Lines 25- 34 in the reaction scheme, (application page 166, first row ),



“

”

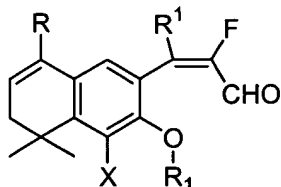
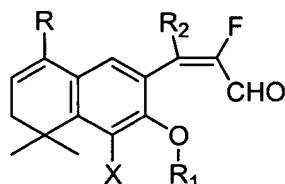
## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



should be --

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Column 118, in the reaction scheme row 1 (application page 166 ),

**A-146** (R=i-Pr, R<sub>1</sub>=Me, R<sub>2</sub>=Me, X=Br)**A-147** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)**A-148** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)**A-149** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr, X=Br)**A-150** (R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)**A-151** (R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me, X=Br)**A-152** (R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)**A-153** (R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)**A-154** (R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)**A-155** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Cl)“ **A-156** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Cl) ”**A-146** (R=i-Pr, R<sub>1</sub>=Me, R<sub>2</sub>=Me, X=Br)**A-147** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)**A-148** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)**A-149** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr, X=Br)**A-150** (R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)**A-151** (R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me, X=Br)**A-152** (R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)**A-153** (R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)**A-154** (R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)**A-155** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Cl)should be -- **A-156** (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Cl) --

Column 119, Line 25, (application page 167, line 17), “1-2 g” should be --12g--

Column 124, Line 31, (application page 177, line 8), “2.881H)”  
should be --2.88 (m, 1H)--

Column 124, Line 47, (application page 177, line 20), “(in, 3H)” should be --(m, 3H)--

Column 124, Line 60, (application page 178, line 4), “(r, 2H)” should be --(m, 2H)--

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Column 125, Line 1, (application page 178, line 9), "3, dihydro"  
should be --3, 4-dihydro --

Column 125, Line 25, (application page 179, line 1), "1'-dimethyl"  
should be --1,1-dimethyl --

Column 126, Line 35, (application page 181, line 4), "1  $\mu$ l-dimethyl"  
should be --1,1-dimethyl--

Column 126, Line 66, (application page 182, line 2), "r purification"  
should be --after purification--

Column 127, Line 4, (application page 182, line 2), "7.34 (s," should be --7.34 (s, 1H)--

Column 127, Line 12, (application page 182, line 14), " $\mu$ l" should be --mL--

Column 127, Line 66, (application page 183, line 26), "(s,1H," should be --(s,1H),--

Column 128, Line 49, (application page 185, line 7), " $^1\text{H}$  NM" should be -- $^1\text{H}$  NMR--

Column 129, Line 25, (application page 186, line 13), "2.3  $\mu$ mmol"  
should be --2.3 mmol --

Column 129, Line 65, (application page 187, line 14), "3.84.1" should be --3.8-4.1--

Column 130, Line 13, (application page 187, line 25), "3.63.9" should be --3.6-3.9--

Column 130, Line 15, (application page 187, line 27), "614" should be --6H--

Column 130, Line 30, (application page 188, line 12), "JF7.0 Hz"  
should be -- J=7.0 Hz --

Column 130, Line 44, (application page 188, line 24), "3.904.10 (n"  
should be --3.90-4.10 (m --

Column 130, Line 47, (application page 188, line 26), "8-isoprpyl"  
should be --8-isopropyl --

Column 130, Line 63, (application page 189, line 11), "butyl-1-3-ethoxy"  
should be -- butyl-3-ethoxy --

Column 131, Line 24, (application page 190, line 4), "3.904.10"  
should be --3.90-4.10--

Column 131, Line 58, (application page 191, line 3), "3.894.05"

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
should be --3.89-4.05--

Column 132, Line 1, (application page 191, line 10), “2(I)-pyrimidinone”  
should be --2(*IH*)-pyrimidinone --

Column 132, Line 21, (application page 191, line 25), “(r, 4H)” should be --(m, 4H)--

Column 132, Line 44, (application page 192, line 15), “(2E>3)” should be --(2E)3--

Column 134, Line 13, (application page 195, line 16), “24-enal” should be --2-enal--

Column 135, Line 51, (application page 198, line 17), “2-yl)1-6” should be --2-yl)-6--

Column 136, Line 4, (application page 199, line 4), “4E,6)” should be --4E,6E)--

Column 136, Line 18, (application page 199, line 14), “0.8 Hz” should be --J=4.8Hz--

Column 136, Line 44, (application page 200, line 6), “7-(bromo”  
should be --7-(4-bromo --

Column 136, Line 45, (application page 200, line 7), “2-yl)1)-6-fluoro”  
should be --2-yl)-6-fluoro--

Column 138, Line 13, (application page 203, line 3), “30.94” should be --  $\delta$  0.94--

Column 138, Line 17, (application page 203, line 6), “(s, if)” should be --(s, 1H)--

Column 139, Line 37, (application page 205, line 21), “2E” should be --2Z--

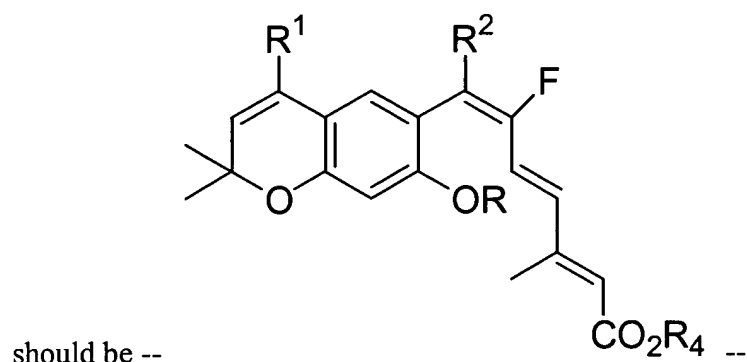
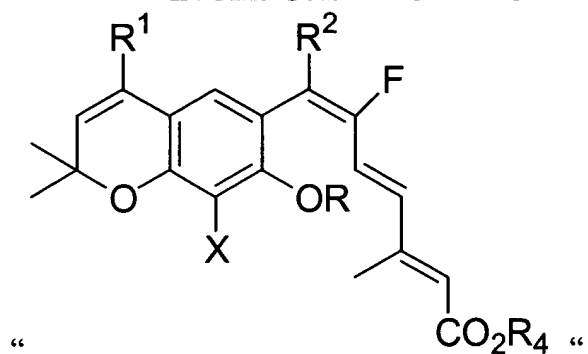
Column 139, Line 67, (application page 206, line 16), “3.84.0” should be --3.8-4.0--

Column 140, Line 18, (application page 207 line 4), “methyl” should be --dimethyl--

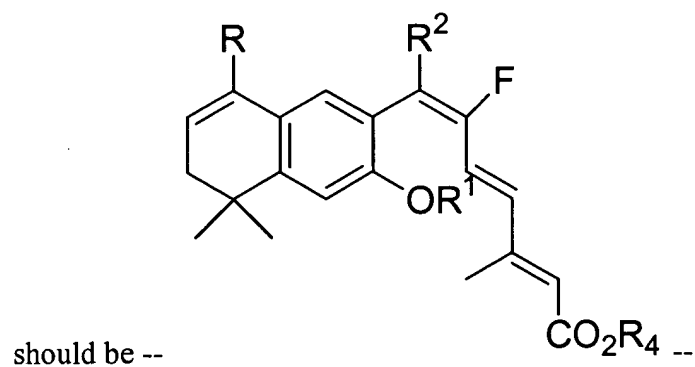
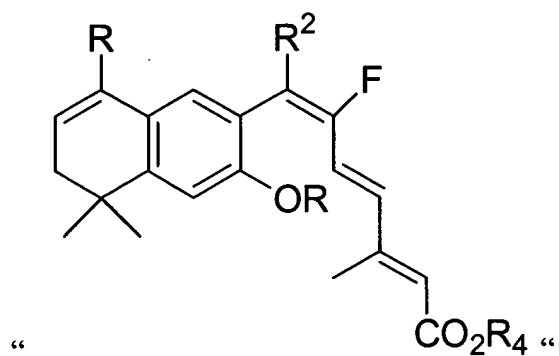
Column 145, Line 67, in Claim 1, (application page 212 line 13 below the structure “R<sup>4</sup>”  
should be --R<sub>4</sub>--

Column 147, Line 40, claim no.21 (application page 214, claim no. 21),

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Column 149, claim no. 42, (application page 218, claim no. 42)



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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GABOR L. SZEKERES  
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Anaheim Hills, Ca 92886

Respectfully Submitted:

By: Gabor L. Szekeres  
Gabor L. Szekeres, Reg. # 28,675  
Attorney for Patentee, Assignee

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 24

PATENT NO. : 6,887,896

APPLICATION NO.: 10/696,748

ISSUE DATE : May 3, 2005

INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 4, Line 17, (application page 6, line 5), "shown un"  
should be --shown in--

Column 12, Line 54, (application page 21, line 3), "MinoxidilR"  
should be -- Minoxidil<sup>R</sup>--

Column 21, Line 48, (application page 32, line 27), "61)." should be --6H)--

Column 23, Line 3, (application page 35, line 10), "tetrahydro-2(]-pyrimidinone"  
should be -- tetrahydro-2(1H)-pyrimidinone --

Column 23, Line 20, (application page 35, line 24), "dichloropalladium (1)"  
should be -- dichloropalladium (II)--

Column 24, Line 17, (application page 37, line 20), "(Compound 16,355"  
should be -- (Compound 16, 355--

Column 25, Line 54, (application page 40, line 21), "2.742.84"  
should be --2.74-2.84--

Column 27, Line 7, (application page 43, line 3), "36.89" should be --δ 6.89--

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 27, Line 30, (application page 43, line 19), "6.106.24"  
should be --6.10-6.24--

Column 28, Line 50, (application page 45, line 26), "2.642.75"  
should be --2.64-2.75--

Column 29, Line 46, (application page 47, line 20), "2.742.83"  
should be --2.74-2.83--

Column 29, Line 55, (application page 47, line 24), "dimethyl-2H-chromen-6yl)<sub>3</sub>"  
should be -- dimethyl-2H-chromen-6yl)-3--

Column 30, Line 20, (application page 48, line 22), "methoxy-22-dimethyl"  
should be -- methoxy-2,2-dimethyl --

Column 41, Line 10, (application page 59, line 23), "(s, 10H)"  
should be --(s, 1H)--

Column 41, Line 22, (application page 60, line 6), "(m, If,"  
should be -- m, 1H),--

Column 41, Line 32, (application page 60, line 13), "(s, if),"  
should be --(s, 1H),--

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CERTIFICATE OF CORRECTION

Page 3 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 41, Line 46, (application page 60, line 23), "(t, J 57.2 Hz, 3H)"  
should be --(t, J=7.2 Hz, 3H) --

Column 41, Line 55, (application page 61, line 1), "-78DC." should be -- -78°C --

Column 41, Line 63, (application page 61, line 7), "2.0µM" should be --2.0M --

Column 42, Line 12, (application page 61, line 20), "I-(Isopropyl)"  
should be -- I-(4-Isopropyl) --

Column 42, Line 58, (application page 63, line 2), "(s, If),"  
should be --(s, 1H),--

Column 45, Line 17-18, (application page 67, line 11-12), "Ethyl (2E)-2-fluoro-3-[(4-isopropyl-2,2-dimethyl-7yl)-but-2-enoate (Compound 73)]"  
should be -- Ethyl (2E)-2-fluoro-3-[(4-isopropyl-2,2-dimethyl-7-propoxy-2H-chromen-6-yl)-but-2-enoate (Compound 73)]--

Column 45, Line 45, (application page 68, line 6), "(s, 1 ul)," should be --(s, 1H),--

Column 45, Line 48, (application page 68, line 7), "(2E)<sub>3</sub>" should be --(2E)-3--

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 4 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 46, Line 10, (application page 69, line 1), "Ethyl (2E)<sub>2</sub>-fluoro-3-(7-methoxy-22,4)" should be -- Ethyl (2E)-2-fluoro-3-(7-methoxy-2,2,4--

Column 47, Line 35, (application page 71, line 13), "(m, 10H)" should be --(m, 1H)--

Column 48, Line 28, (application page 73, line 3), "11.0" should be --1.10--

Column 48, Line 50, (application page, line 18), "chromen-6yl)<sub>2</sub>" should be -- chromen-6yl)-2--

Column 51, Line 3, (application page 77, line 27), "6.50 (s, 1H, " should be --6.50 (s, 1H), --

Column 52, Line 48, (application page 81, line 1), "1.35 (s, 614)," should be --1.35 (s, 6H),--

Column 52, Line 66, (application page 81, line 14), "6.42 (s, 1 ul)," should be --6.42 (s, 1H),--

Column 53, Line 16, (application page 81, line 27), "(dd, J 15.5, 25.5 Hz, 1H)," should be --(dd, J =15.5, 25.5 Hz, 1H),--

Column 55, Line 23, (application page 85, line 24), "(in, 21), 2.05 (s, 31)" should be --(m, 2H), 2.05 (s, 3H),--

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 5 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 55 , Line 53, (application page 86, line 21), “(300 M-z” should be --(300 MHz--

Column 56, Line 8, (application page 87, line 12), “2.46” should be --2,4,6--

Column 57, Line 33, (application page 89, line 26), “11.25 br s, 1H),”  
should be --11.25 (br s, 1H),--

Column 58, Line 17, (application page 90, line 17), “ten-butyl” should be -- *tert*-butyl --

Column 58, Line 26, (application page 90, line 25), “2.402.60” should be --2.40-2.60--

Column 58, Line 40, (application page 91, line 9), “11.25 br s, 1H),”  
should be --11.25 (br s, 1H),--

Column 60, table 3, compound no. 121, RAR Bind. Ki nM under  $\beta$ , (application page 92,  
table 3, compound no.121, RAR Bind. Ki nM under  $\beta$ ), “46620”  
should be --4662(0)--????????

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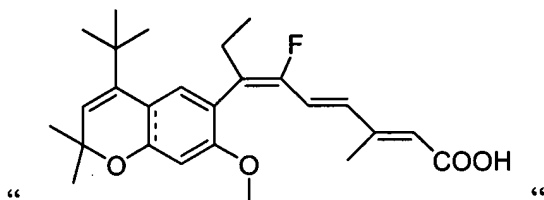
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Page 6 of 24

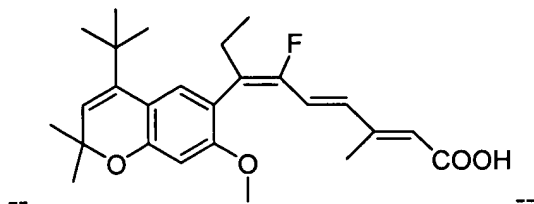
PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 63, compound no.131 in TABLE 3 (application page 93, compound no. 131)



should be



Column 67, Line 67, (application page 98, line 2), "(sept, 36.2 Hz"  
should be --(sept, J=6.2 Hz --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 7 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 68, Line 26, (application page 98, line 19), "2.842.87" should be --2.84-2.87--

Column 68, Line 36, (application page 99, line 22), "2.842.87" should be --2.84-2.87--

Column 70, Line 7, (application page 101, line 21), "3.984.02" should be --3.98-4.02--

Column 70, Line 7, (application page 101, line 22), "2.742.76" should be --2.74-2.76--

Column 70, Line 32, (application page 102, line 13), "1) and" should be -- ) and--

Column 71, Line 40, (application page 104, line 17), "(d, J=6.8Hz, 6-H)," should be --(d, J=6.8Hz, 6 H),--

Column 71, Line 42, (application page 104, line 19), "1.H)," should be --1 H),--

Column 71, Line 52, (application page 104, line 25), "0.101" should be --0.10--

Column 71, Line 57, (application page 105, line 3), "8 ppm" should be --  $\delta$  ppm--

Column 71, Line 59, (application page 105, line 4), "4.44-(sept," should be --4.44 (sept,--

Column 72, Line 54, (application page 106, line 23), "6-Y1)" should be --6-yl)--

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Page 8 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 73, Line 23, (application page 107, line 23), "(m, 21H)," should be --(m, 2H),--

Column 73, Line 37, (application page 108, line 7), "66.83" should be --  $\delta$  6.83--

Column 74, Line 6, (application page 109, line 7), "(in, 1H)" should be --(m, 1H)--

Column 74, Line 7, (application page 109, line 7), "3.75-(s, 3H)"  
should be --3.75 (s, 3H)--

Column 74, Line 29, (application page 109, line 22), "7L(8)" should be --7-(8--

Column 74, Line 57, (application page 110, line 16), "7-isopropoxy-2,2-methyl"  
should be --4-isopropoxy-2,2-dimethyl --

Column 81, Line 55, (application page 118, line 5), "2(1)-pyrimidinone"  
should be --2(1H)-pyrimidinone --

Column 82, Line 47, (application page 119, line 23), "J=0 Hz"  
should be -- J=10 Hz --

Column 83, Line 25, (application page 121, line 6), "General Procedure B"  
should be -- General Procedure B-1--

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 9 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 83, Line 59, (application page 122, line 6), "I=5Hz" should be -- J=5Hz --

Column 84, Line 33, (application page 123, line 11), "(s, 1H." should be --(s, 1H).--

Column 84, Line 52, (application page 123, line 26), "(s, 1H." should be --(s, 1H).--

Column 87, Line 46, (application page 127, after A-21), "33:1" should be --3.3 :1--

Column 91, Line 39, (application page 129, line 3), "7-bromo-ethoxy"  
should be --7-bromo-6-ethoxy --

Column 91, Line 58, (application page 129, line 18), "NH<sub>4</sub>C)" should be -- NH<sub>4</sub>Cl--

Column 94, Line 13, (application page 134, line 10), "(m. 2H)" should be --(m, 2H)--

Column 96, Line 1, (application page 137, line 23), "1-(4-dimethyl"  
should be --1-(4,4-dimethyl --

Column 96, Line 2, (application page 137, line 23), "isopropyl-3.,"  
should be -- isopropyl-3,4--

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 10 of 24

PATENT NO. : 6,887,896

APPLICATION NO.: 10/696,748

ISSUE DATE : May 3, 2005

INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 96, Line 8, (application page 138, line 23), "palladium (1)"  
should be -- palladium (II)--

Column 96, Line 12, (application page 138, line 5), "δ 60.39" should be -- δ 0.39--

Column 96, Line 40, (application page 138, line 27), "In ol)" should be --mmol--

Column 98, Line 17, (application page 142, line 3-4), " 0.67 (q, 2H, 32 4.5 Hz),"  
should be --0.67 (q, 2H, J=4.5 Hz)--

Column 98, Line 18, (application page 142, line 5), "2.14 ((d" should be --2.14 (d --

Column 98, Line 19, (application page 142, line 6), "3=6.5Hz" should be --J=6.5Hz--

Column 98, Line 41, (application page 142, line 21), "Ethyl (2E63)"  
should be -- Ethyl (2E)-3--

Column 98, Line 45, (application page 142, line 23), "F-11" should be --F-1--

Column 99, Line 3, (application page 143, line 15), "60.89" should be -- δ 0.89--

Column 99, Line 60, (application page 145, line 2), "(T, 2H)" should be --(m, 2H)--

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Anaheim Hills, CA 92886

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EX-100 7006

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 11 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 102, Line 7, (application page 149, line 4), "(Compound A-42)"  
should be --(Compound A-62)--

Column 102, Line 23, (application page 149, line 15), "dimethyl-(cyclopropyl)"  
should be -- dimethyl-6-(cyclopropyl)--

Column 103, Line 24, (application page 151, line 12), "(Compound A-47)"  
should be --(Compound A-67) --

Column 104, Line 3, (application page 152, line 21), "2,4,6" should be --2,4,6—

Column 104, Line 59, (application page 154, line 11), "3,44" should be --3,4--

Column 105, Line 3, (application page 154, line 20), "5:66" should be --5.66--

Column 105, Line 20, (application page 155, line 7), "J=36.5 Hz" should be --J=6.5 Hz--

Column 105, Line 26, (application page 155, line 12), "Ethyl (2E4E,6E)"  
should be -- Ethyl (2E,4E,6E)--

Column 105, Line 34, (application page 155, line 18), "0.011mL" should be --0.01mL --

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 12 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 106, Line 14, (application page 157, line 4), "2,4.6" should be --2,4,6--

Column 106, Line 31, (application page 157, line 19), "743-Ethoxy"  
should be --7-(3-Ethoxy --

Column 106, Line 58, (application page 158, line 15), "2.19-(m, 2H)"  
should be --2.19 (m, 2H)---

Column 106, Line 58, (application page 158, line 16), "2.40 (r q" should be --2.40 (br q --

Column 106, Line 63, (application page 158, line 19), "4,4-dimethylethoxy"  
should be --4,4-dimethyl-6-ethoxy --

Column 106, Line 64, (application page 158, line 20), "methyl-2.4"  
should be -- methyl-2,4--

Column 107, Line 26, (application page 159, line 18), "3-(4-dimethyl"  
should be --3-(4,4-dimethyl --

Column 107, Line 28, (application page 159, line 19), "2,4.6" should be --2,4,6--

Column 107, Line 40, (application page 160, line 2), "7.02-(s, 1H)."  
should be --7.02 (s, 1H).--

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 13 of 24

PATENT NO. : 6,887,896

APPLICATION NO.: 10/696,748

ISSUE DATE : May 3, 2005

INVENTOR(S) : Beard, et al.

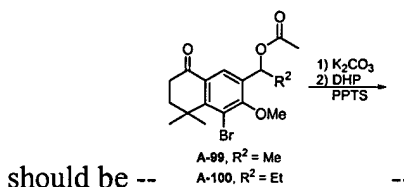
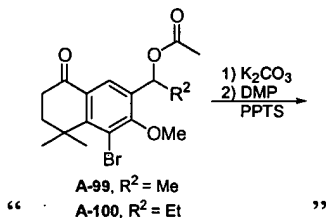
It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 108, Line 19, (application page 160, line 20), "1.111 mmol"  
should be --1.11 mmol--

Column 108, Line 28, (application page 161, line 1), "(4,\$dimethyl)"  
should be --(4,4-dimethyl --

Column 108, Line 36, (application page 161, line 8), "(t; 3H" should be --(t, 3H --

Column 114, Line 50, (application page 164, lin the reaction scheme in the third row



should be -- --

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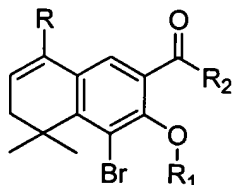
## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 14 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 115, Lines 36-40 in the reaction scheme, (application page 164, fourth row ),



A-109, R=i-Pr, R <sub>1</sub> =Et, R <sub>2</sub> =Me	} LDA
A-110, R=i-Pr, R <sub>1</sub> =Et, R <sub>2</sub> =Et	
A-111, R=i-Pr, R <sub>1</sub> =Et, R <sub>2</sub> =i-Pr	} MeI
A-112, R=i-Pr, R <sub>1</sub> =i-Pr, R <sub>2</sub> =Me	
A-113, R=i-Pr, R <sub>1</sub> =n-Pr, R <sub>2</sub> =Me	
A-114, R=t-Bu, R <sub>1</sub> =Et, R <sub>2</sub> =Me	
A-115, R=t-Bu, R <sub>1</sub> =i-Pr, R <sub>2</sub> =Me	
“ A-116, R=s-Bu, R <sub>1</sub> =Et, R <sub>2</sub> =Et ”	

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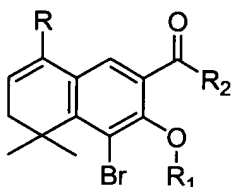
JUN 5 2006

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 15 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



A-109, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me  
A-110, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et  
A-111, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr  
A-112, R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me  
A-113, R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me  
A-114, R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me  
A-115, R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me  
A-116, R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et

LDA  
MeI

should be --

--

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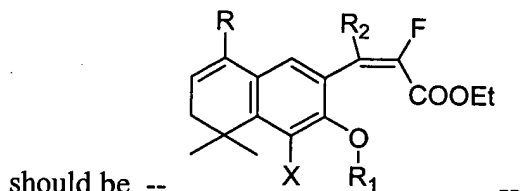
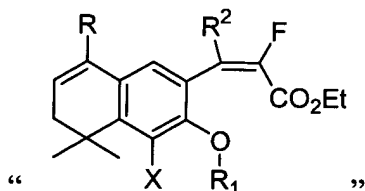
UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 16 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 117, Lines 25- 34 in the reaction scheme, (application page 166, first row ),



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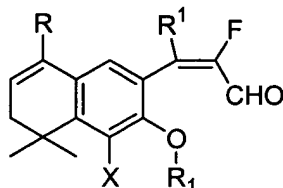
UNITED STATES PATENT AND TRADEMARK OFFICE  
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Page 17 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 118, in the reaction scheme row 1 (application page 166 ),



- A-146 (R=i-Pr, R<sub>1</sub>=Me, R<sub>2</sub>=Me, X=Br)  
A-147 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)  
A-148 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)  
A-149 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr, X=Br)  
A-150 (R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)  
A-151 (R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me, X=Br)  
A-152 (R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)  
A-153 (R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)  
A-154 (R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)  
A-155 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Cl)  
“ A-156 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Cl) ”

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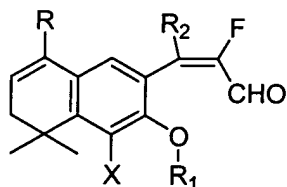


## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 18 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



- A-146 (R=i-Pr, R<sub>1</sub>=Me, R<sub>2</sub>=Me, X=Br)  
A-147 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)  
A-148 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)  
A-149 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr, X=Br)  
A-150 (R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)  
A-151 (R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me, X=Br)  
A-152 (R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)  
A-153 (R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)  
A-154 (R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)  
A-155 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Cl)  
A-156 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Cl)

should be -- --

Column 119, Line 25, (application page 167, line 17), "1-2 g" should be --12g--

Column 124, Line 31, (application page 177, line 8), "2.881H)"  
should be --2.88 (m, 1H)--

Column 124, Line 47, (application page 177, line 20), "(in, 3H)" should be --(m, 3H)--

Column 124, Line 60, (application page 178, line 4), "(r, 2H)" should be --(m, 2H)--

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CERTIFICATE OF CORRECTION**

Page 19 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 125, Line 1, (application page 178, line 9), "3, dihydro"  
should be --3, 4-dihydro --

Column 125, Line 25, (application page 179, line 1), "1'-dimethyl"  
should be --1,1-dimethyl --

Column 126, Line 35, (application page 181, line 4), "1  $\mu$ l-dimethyl"  
should be --1,1-dimethyl--

Column 126, Line 66, (application page 182, line 2), "r purification"  
should be --after purification--

Column 127, Line 4, (application page 182, line 2), "7.34 (s," should be --7.34 (s, 1H)--

Column 127, Line 12, (application page 182, line 14), " $\mu$ l" should be --mL--

Column 127, Line 66, (application page 183, line 26), "(s,1H," should be --(s,1H),--

Column 128, Line 49, (application page 185, line 7), " $^1\text{H}$  NM" should be -- $^1\text{H}$  NMR--

Column 129, Line 25, (application page 186, line 13), "2.3  $\mu$ mmol"  
should be --2.3 mmol --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 20 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 129, Line 65, (application page 187, line 14), "3.84.1" should be --3.8-4.1--

Column 130, Line 13, (application page 187, line 25), "3.63.9" should be --3.6-3.9--

Column 130, Line 15, (application page 187, line 27), "614" should be --6H--

Column 130, Line 30, (application page 188, line 12), "JF7.0 Hz"  
should be -- J=7.0 Hz --

Column 130, Line 44, (application page 188, line 24), "3.904.10 (n)"  
should be --3.90-4.10 (m --

Column 130, Line 47, (application page 188, line 26), "8-isoprpyl"  
should be --8-isopropyl --

Column 130, Line 63, (application page 189, line 11), "butyl-1-3-ethoxy"  
should be -- butyl-3-ethoxy --

Column 131, Line 24, (application page 190, line 4), "3.904.10"  
should be --3.90-4.10--

Column 131, Line 58, (application page 191, line 3), "3.894.05"  
should be --3.89-4.05--

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Anaheim Hills, CA 92886

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 21 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 132, Line 1, (application page 191, line 10), "2(I)-pyrimidinone"  
should be --2(IH)-pyrimidinone --

Column 132, Line 21, (application page 191, line 25), "(r, 4H)" should be --(m, 4H)--

Column 132, Line 44, (application page 192, line 15), "(2E>3" should be --(2E)3--

Column 134, Line 13, (application page 195, line 16), " 24-enal" should be --2-enal--

Column 135, Line 51, (application page 198, line 17), "2-yl)1-6" should be --2-yl)-6--

Column 136, Line 4, (application page 199, line 4), "4E,6)" should be --4E,6E)--

Column 136, Line 18, (application page 199, line 14), "0.8 Hz" should be --J=4.8Hz--

Column 136, Line 44, (application page 200, line 6), "7-(bromo"  
should be --7-(4-bromo --

Column 136, Line 45, (application page 200, line 7), "2-yl)1)-6-fluoro"  
should be --2-yl)-6-fluoro--

Column 138, Line 13, (application page 203, line 3), "30.94" should be --  $\delta$  0.94--

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 22 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 138, Line 17, (application page 203, line 6), "(s, if)" should be --(s, 1H)--

Column 139, Line 37, (application page 205, line 21), "2E" should be --2Z--

Column 139, Line 67, (application page 206, line 16), "3.84.0" should be --3.8-4.0--

Column 140, Line 18, (application page 207 line 4), "methyl" should be --dimethyl--

Column 145, Line 67, in Claim 1, (application page 212 line 13 below the structure "R"<sup>4</sup>) should be --R<sub>4</sub>--

Column 147, Line 40, claim no.21 (application page 214, claim no. 21),

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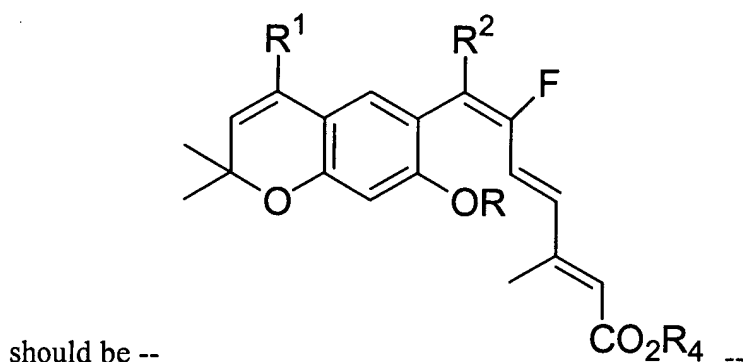
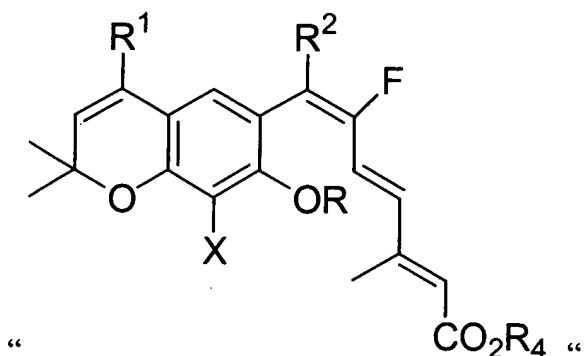
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CERTIFICATE OF CORRECTION

Page 23 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

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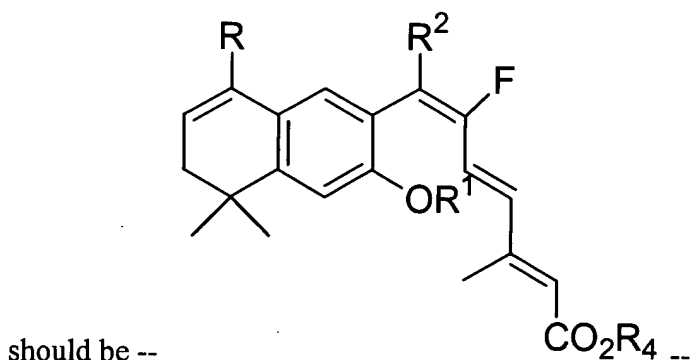
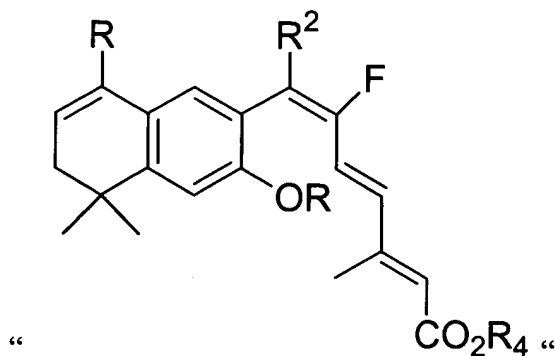
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CERTIFICATE OF CORRECTION

Page 24 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 149, claim no. 42, (application page 218, claim no. 42)



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Page 1 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 4, Line 17, (application page 6, line 5), "shown un"  
should be --shown in--

Column 12, Line 54, (application page 21, line 3), "Minoxidil<sup>R</sup>"  
should be -- Minoxidil<sup>R</sup>--

Column 21, Line 48, (application page 32, line 27), "61)." should be --6H)--

Column 23, Line 3, (application page 35, line 10), "tetrahydro-2(]-pyrimidinone"  
should be -- tetrahydro-2(1H)-pyrimidinone --

Column 23, Line 20, (application page 35, line 24), "dichloropalladium (1)"  
should be -- dichloropalladium (II)--

Column 24, Line 17, (application page 37, line 20), "(Compound 16,355"  
should be -- (Compound 16, 355--

Column 25, Line 54, (application page 40, line 21), "2.742.84"  
should be --2.74-2.84--

Column 27, Line 7, (application page 43, line 3), "36.89" should be --δ 6.89--

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Page 2 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 27, Line 30, (application page 43, line 19), "6.106.24"  
should be --6.10-6.24--

Column 28, Line 50, (application page 45, line 26), "2.642.75"  
should be --2.64-2.75--

Column 29, Line 46, (application page 47, line 20), "2.742.83" should be --2.74-2.83--

Column 29, Line 55, (application page 47, line 24), "dimethyl-2H-chromen-6yl)<sub>3</sub>" should be -- dimethyl-2H-chromen-6yl)-3--

Column 30, Line 20, (application page 48, line 22), "methoxy-22-dimethyl" should be -- methoxy-2,2-dimethyl --

Column 41, Line 10, (application page 59, line 23), “(s, 10H)” should be --(s, 1H)--

Column 41, Line 22, (application page 60, line 6), "(m, If," should be - m. 1H).--

Column 41, Line 32, (application page 60, line 13), "(s, if)," should be --(s, 1H)--

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# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 3 of 24

PATENT NO. : 6,887,896  
 APPLICATION NO.: 10/696,748  
 ISSUE DATE : May 3, 2005  
 INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 41, Line 46, (application page 60, line 23), "(t, J 57.2 Hz, 3H)"  
 should be --(t, J=7.2 Hz, 3H) --

Column 41, Line 55, (application page 61, line 1), "-78DC." should be -- -78°C --

Column 41, Line 63, (application page 61, line 7), "2.0 $\mu$ M" should be --2.0M --

Column 42, Line 12, (application page 61, line 20), "I-(Isopropyl)"  
 should be -- I-(4-Isopropyl) --

Column 42, Line 58, (application page 63, line 2), "(s, If),"  
 should be --(s, 1H),--

Column 45, Line 17-18, (application page 67, line 11-12), "Ethyl (2E)-2-fluoro-3-[(4-isopropyl-2,2-dimethyl-7yl)-but-2-enoate (Compound 73)"  
 should be -- Ethyl (2E)-2-fluoro-3-[(4-isopropyl-2,2-dimethyl-7-propoxy-2H-chromen-6-yl)-but-2-enoate (Compound 73)--

Column 45, Line 45, (application page 68, line 6), "(s, 1 ul)," should be --(s, 1H),--

Column 45, Line 48, (application page 68, line 7), "(2E)<sub>3</sub>" should be --(2E)-3--

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 4 of 24

PATENT NO. : 6,887,896  
 APPLICATION NO.: 10/696,748  
 ISSUE DATE : May 3, 2005  
 INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 46, Line 10, (application page 69, line 1), "Ethyl (2E)<sub>2</sub>-fluoro-3-(7-methoxy-22,4)" should be -- Ethyl (2E)-2-fluoro-3-(7-methoxy-2,2,4--

Column 47, Line 35, (application page 71, line 13), "(m, 10H)" should be --(m, 1H)--

Column 48, Line 28, (application page 73, line 3), "11.0" should be --1.10--

Column 48, Line 50, (application page, line 18), "chromen-6yl)<sub>2</sub>" should be -- chromen-6yl)-2--

Column 51, Line 3, (application page 77, line 27), "6.50 (s, 1H, " should be --6.50 (s, 1H), --

Column 52, Line 48, (application page 81, line 1), "1.35 (s, 614)," should be --1.35 (s, 6H),--

Column 52, Line 66, (application page 81, line 14), "6.42 (s, 1 ul)," should be --6.42 (s, 1H),--

Column 53, Line 16, (application page 81, line 27), "(dd, J 15.5, 25.5 Hz, 1H)," should be --(dd, J =15.5, 25.5 Hz, 1H),--

Column 55, Line 23, (application page 85, line 24), "(in, 21), 2.05 (s, 31)" should be --(m, 2H), 2.05 (s, 3H),--

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Page 5 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 55, Line 53, (application page 86, line 21), "(300 M-z" should be --(300 MHz--

Column 56, Line 8, (application page 87, line 12), "2.46" should be --2,4,6--

Column 57, Line 33, (application page 89, line 26), "11.25 br s, 1H)," should be --11.25 (br s, 1H),--

Column 58, Line 17, (application page 90, line 17), "ten-butyl" should be -- *tert*-butyl --

Column 58, Line 26, (application page 90, line 25), "2.402.60" should be --2.40-2.60--

Column 58, Line 40, (application page 91, line 9), "11.25 br s, 1H)," should be --11.25 (br s, 1H),--

Column 60, table 3, compound no. 121, RAR Bind. Ki nM under  $\beta$ , (application page 92, table 3, compound no.121, RAR Bind. Ki nM under  $\beta$ ), "46620" should be --4662(0)--????????

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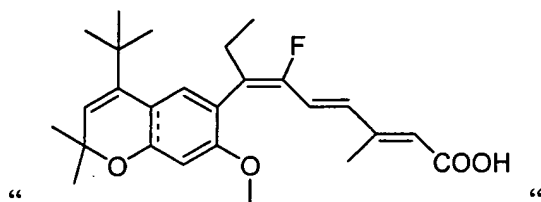
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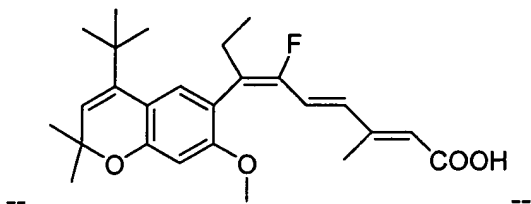
PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 63, compound no.131 in TABLE 3 (application page 93, compound no. 131)



should be



Column 67, Line 67, (application page 98, line 2), “(sept, 36.2 Hz”  
should be --(sept, J=6.2 Hz --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 7 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 68, Line 26, (application page 98, line 19), "2.842.87" should be --2.84-2.87--

Column 68, Line 36, (application page 99, line 22), "2.842.87" should be --2.84-2.87--

Column 70, Line 7, (application page 101, line 21), "3.984.02" should be --3.98-4.02--

Column 70, Line 7, (application page 101, line 22), "2.742.76" should be --2.74-2.76--

Column 70, Line 32, (application page 102, line 13), "(1) and" should be -- ) and--

Column 71, Line 40, (application page 104, line 17), "(d, J=6.8Hz, 6-H)," should be --(d, J=6.8Hz, 6 H),--

Column 71, Line 42, (application page 104, line 19), "1.H)," should be --1 H),--

Column 71, Line 52, (application page 104, line 25), "0.101" should be --0.10--

Column 71, Line 57, (application page 105, line 3), "8 ppm" should be --  $\delta$  ppm--

Column 71, Line 59, (application page 105, line 4), "4.44-(sept," should be --4.44 (sept,--

Column 72, Line 54, (application page 106, line 23), "6-Y1)" should be --6-yl)--

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 8 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 73, Line 23, (application page 107, line 23), "(m, 21H)," should be --(m, 2H)--

Column 73, Line 37, (application page 108, line 7), "66.83" should be --  $\delta$  6.83--

Column 74, Line 6, (application page 109, line 7), "(in, 1H)" should be --(m, 1H)--

Column 74, Line 7, (application page 109, line 7), "3.75-(s, 3H)"  
should be --3.75 (s, 3H)--

Column 74, Line 29, (application page 109, line 22), "7L(8)" should be --7-(8--

Column 74, Line 57, (application page 110, line 16), "7-isopropoxy-2,2-methyl"  
should be --4-isopropoxy-2,2-dimethyl --

Column 81, Line 55, (application page 118, line 5), "2(1))-pyrimidinone"  
should be --2(1H)-pyrimidinone --

Column 82, Line 47, (application page 119, line 23), "J=0 Hz"  
should be -- J=10 Hz --

Column 83, Line 25, (application page 121, line 6), "General Procedure B"  
should be -- General Procedure B-1--

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 9 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 83, Line 59, (application page 122, line 6), "I=5Hz" should be -- J=5Hz --

Column 84, Line 33, (application page 123, line 11), "(s, 1H." should be --(s, 1H).--

Column 84, Line 52, (application page 123, line 26), "(s, 1H." should be --(s, 1H).--

Column 87, Line 46, (application page 127, after A-21), "33:1" should be --3.3 :1--

Column 91, Line 39, (application page 129, line 3), "7-bromo-ethoxy"  
should be --7-bromo-6-ethoxy --

Column 91, Line 58, (application page 129, line 18), "NH<sub>4</sub>C)" should be -- NH<sub>4</sub>Cl--

Column 94, Line 13, (application page 134, line 10), "(m. 2H)" should be --(m, 2H)--

Column 96, Line 1, (application page 137, line 23), "1-(4-dimethyl"  
should be --1-(4,4-dimethyl --

Column 96, Line 2, (application page 137, line 23), "isopropyl-3.,"  
should be -- isopropyl-3,4--

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 10 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 96, Line 8, (application page 138, line 23), "palladium (1)"  
should be -- palladium (II)--

Column 96, Line 12, (application page 138, line 5), "δ 60.39" should be -- δ 0.39--

Column 96, Line 40, (application page 138, line 27), "In ol)" should be --mmol--

Column 98, Line 17, (application page 142, line 3-4), " 0.67 (q, 2H, 32 4.5 Hz),"  
should be --0.67 (q, 2H, J=4.5 Hz)--

Column 98, Line 18, (application page 142, line 5), "2.14 ((d" should be --2.14 (d --

Column 98, Line 19, (application page 142, line 6), "3=6.5Hz" should be --J=6.5Hz--

Column 98, Line 41, (application page 142, line 21), "Ethyl (2E63"  
should be -- Ethyl (2E)-3--

Column 98, Line 45, (application page 142, line 23), "F-11" should be --F-1--

Column 99, Line 3, (application page 143, line 15), "60.89" should be -- δ 0.89--

Column 99, Line 60, (application page 145, line 2), "(T, 2H)" should be --(m, 2H)--

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 11 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 102, Line 7, (application page 149, line 4), "(Compound A-42)"  
should be --(Compound A-62)--

Column 102, Line 23, (application page 149, line 15), "dimethyl-(cyclopropyl)"  
should be -- dimethyl-6-(cyclopropyl)--

Column 103, Line 24, (application page 151, line 12), "(Compound A-47)"  
should be --(Compound A-67) --

Column 104, Line 3, (application page 152, line 21), "2,4.6" should be --2,4,6--

Column 104, Line 59, (application page 154, line 11), "3,44" should be --3,4--

Column 105, Line 3, (application page 154, line 20), "5:66" should be --5.66--

Column 105, Line 20, (application page 155, line 7), "J=36.5 Hz" should be --J=6.5 Hz--

Column 105, Line 26, (application page 155, line 12), "Ethyl (2E4E,6E)"  
should be -- Ethyl (2E,4E,6E)--

Column 105, Line 34, (application page 155, line 18), "0.011mL" should be --0.01mL --

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 12 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 106, Line 14, (application page 157, line 4), "2,4.6" should be --2,4,6--

Column 106, Line 31, (application page 157, line 19), "743-Ethoxy"  
should be --7-(3-Ethoxy --

Column 106, Line 58, (application page 158, line 15), "2.19-(m, 2H)"  
should be --2.19 (m, 2H)—

Column 106, Line 58, (application page 158, line 16), "2.40 (r q" should be --2.40 (br q --

Column 106, Line 63, (application page 158, line 19), "4,4-dimethylethoxy"  
should be --4,4-dimethyl-6-ethoxy --

Column 106, Line 64, (application page 158, line 20), "methyl-2.4"  
should be -- methyl-2,4--

Column 107, Line 26, (application page 159, line 18), "3-(4-dimethyl"  
should be --3-(4,4-dimethyl --

Column 107, Line 28, (application page 159, line 19), "2,4.6" should be --2,4,6--

Column 107, Line 40, (application page 160, line 2), "7.02-(s, 1H)."  
should be --7.02 (s, 1H).--

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 13 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

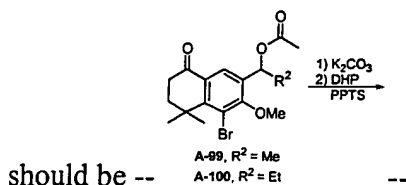
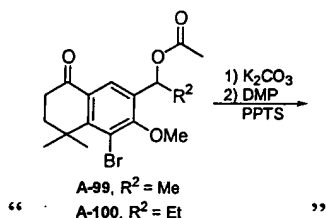
It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 108, Line 19, (application page 160, line 20), "1.111 mmol"  
should be --1.11 mmol--

Column 108, Line 28, (application page 161, line 1), "(4,\$dimethyl"  
should be --(4,4-dimethyl --

Column 108, Line 36, (application page 161, line 8), "(t; 3H" should be --(t, 3H --

Column 114, Line 50, (application page 164, lin the reaction scheme in the third row



should be --

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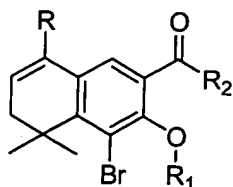
# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 14 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 115, Lines 36-40 in the reaction scheme, (application page 164, fourth row ),



A-109, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me } LDA  
A-110, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et } Mel  
A-111, R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr }  
A-112, R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me  
A-113, R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me  
A-114, R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me  
A-115, R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me  
“ A-116, R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et ”

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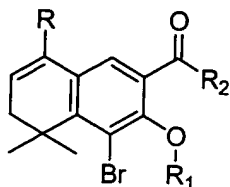


# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 15 of 24

PATENT NO. : 6,887,896  
 APPLICATION NO.: 10/696,748  
 ISSUE DATE : May 3, 2005  
 INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



A-109, R=i-Pr, R <sub>1</sub> =Et, R <sub>2</sub> =Me	} LDA
A-110, R=i-Pr, R <sub>1</sub> =Et, R <sub>2</sub> =Et	
A-111, R=i-Pr, R <sub>1</sub> =Et, R <sub>2</sub> =i-Pr	} Mel
A-112, R=i-Pr, R <sub>1</sub> =i-Pr, R <sub>2</sub> =Me	
A-113, R=i-Pr, R <sub>1</sub> =n-Pr, R <sub>2</sub> =Me	
A-114, R=t-Bu, R <sub>1</sub> =Et, R <sub>2</sub> =Me	
A-115, R=t-Bu, R <sub>1</sub> =i-Pr, R <sub>2</sub> =Me	
A-116, R=s-Bu, R <sub>1</sub> =Et, R <sub>2</sub> =Et	

should be --

--

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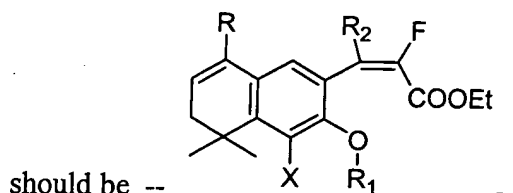
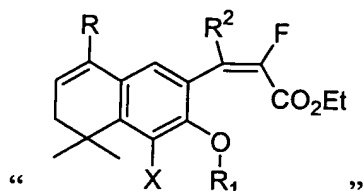
UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 16 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 117, Lines 25- 34 in the reaction scheme, (application page 166, first row ),



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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 17 of 24

PATENT NO. : 6,887,896

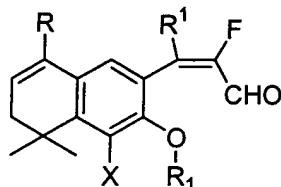
APPLICATION NO.: 10/696,748

ISSUE DATE : May 3, 2005

INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 118, in the reaction scheme row 1 (application page 166 ),

A-146 (R=i-Pr, R<sub>1</sub>=Me, R<sub>2</sub>=Me, X=Br)A-147 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)A-148 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)A-149 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr, X=Br)A-150 (R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)A-151 (R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me, X=Br)A-152 (R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)A-153 (R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)A-154 (R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)A-155 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Cl)“ A-156 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Cl) ”

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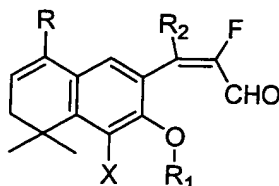


# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 18 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



- A-146 (R=i-Pr, R<sub>1</sub>=Me, R<sub>2</sub>=Me, X=Br)  
A-147 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)  
A-148 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)  
A-149 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=i-Pr, X=Br)  
A-150 (R=i-Pr, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)  
A-151 (R=i-Pr, R<sub>1</sub>=n-Pr, R<sub>2</sub>=Me, X=Br)  
A-152 (R=t-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Br)  
A-153 (R=t-Bu, R<sub>1</sub>=i-Pr, R<sub>2</sub>=Me, X=Br)  
A-154 (R=s-Bu, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Br)  
A-155 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Me, X=Cl)  
A-156 (R=i-Pr, R<sub>1</sub>=Et, R<sub>2</sub>=Et, X=Cl)

should be -- --

Column 119, Line 25, (application page 167, line 17), "1-2 g" should be --12g--

Column 124, Line 31, (application page 177, line 8), "2.881H)" should be --2.88 (m, 1H)--

Column 124, Line 47, (application page 177, line 20), "(in, 3H)" should be --(m, 3H)--

Column 124, Line 60, (application page 178, line 4), "(r, 2H)" should be --(m, 2H)--

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Anaheim Hills, CA 92886

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 19 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 125, Line 1, (application page 178, line 9), "3, dihydro"  
should be --3, 4-dihydro --

Column 125, Line 25, (application page 179, line 1), "1'-dimethyl"  
should be --1,1-dimethyl --

Column 126, Line 35, (application page 181, line 4), "1  $\mu$ l-dimethyl"  
should be --1,1-dimethyl--

Column 126, Line 66, (application page 182, line 2), "r purification"  
should be --after purification--

Column 127, Line 4, (application page 182, line 2), "7.34 (s," should be --7.34 (s, 1H)--

Column 127, Line 12, (application page 182, line 14), " $\mu$ l" should be --mL--

Column 127, Line 66, (application page 183, line 26), "(s,1H," should be --(s,1H),--

Column 128, Line 49, (application page 185, line 7), " $^1$ H NM" should be -- $^1$ H NMR--

Column 129, Line 25, (application page 186, line 13), "2.3  $\mu$ mmol"  
should be --2.3 mmol --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 20 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 129, Line 65, (application page 187, line 14), "3.84.1" should be --3.8-4.1--

Column 130, Line 13, (application page 187, line 25), "3.63.9" should be --3.6-3.9--

Column 130, Line 15, (application page 187, line 27), "614" should be --6H--

Column 130, Line 30, (application page 188, line 12), "JF7.0 Hz"  
should be -- J=7.0 Hz --

Column 130, Line 44, (application page 188, line 24), "3.904.10 (n"  
should be --3.90-4.10 (m --

Column 130, Line 47, (application page 188, line 26), " 8-isoprpyl"  
should be --8-isopropyl --

Column 130, Line 63, (application page 189, line 11), "butyl-1-3-ethoxy"  
should be -- butyl-3-ethoxy --

Column 131, Line 24, (application page 190, line 4), "3.904.10"  
should be --3.90-4.10--

Column 131, Line 58, (application page 191, line 3), "3.894.05"  
should be --3.89-4.05--

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 21 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 132, Line 1, (application page 191, line 10), "2(I)-pyrimidinone"  
should be --2(IH)-pyrimidinone --

Column 132, Line 21, (application page 191, line 25), "(r, 4H)" should be --(m, 4H)--

Column 132, Line 44, (application page 192, line 15), "(2E>3" should be --(2E)3--

Column 134, Line 13, (application page 195, line 16), " 24-enal" should be --2-enal--

Column 135, Line 51, (application page 198, line 17), "2-yl)1-6" should be --2-yl)-6--

Column 136, Line 4, (application page 199, line 4), "4E,6)" should be --4E,6E)--

Column 136, Line 18, (application page 199, line 14), "0.8 Hz" should be --J=4.8Hz--

Column 136, Line 44, (application page 200, line 6), "7-(bromo"  
should be --7-(4-bromo --

Column 136, Line 45, (application page 200, line 7), "2-yl)1)-6-fluoro"  
should be --2-yl)-6-fluoro--

Column 138, Line 13, (application page 203, line 3), "30.94" should be --  $\delta$  0.94--

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UNITED STATES PATENT AND TRADEMARK OFFICE  
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Page 22 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 138, Line 17, (application page 203, line 6), "(s, if)" should be --(s, 1H)--

Column 139, Line 37, (application page 205, line 21), "2E" should be --2Z--

Column 139, Line 67, (application page 206, line 16), "3.84.0" should be --3.8-4.0--

Column 140, Line 18, (application page 207 line 4), "methyl" should be --dimethyl--

Column 145, Line 67, in Claim 1, (application page 212 line 13 below the structure "R"<sup>4</sup>) should be --R<sub>4</sub>--

Column 147, Line 40, claim no.21 (application page 214, claim no. 21),

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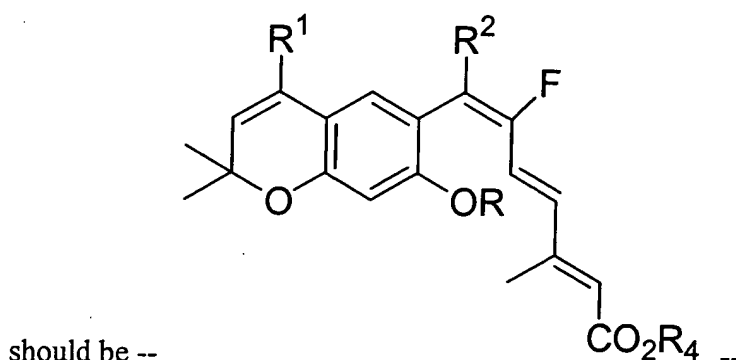
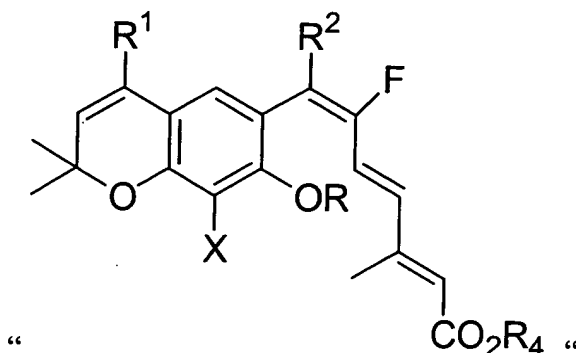
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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 23 of 24

PATENT NO. : 6,887,896  
 APPLICATION NO.: 10/696,748  
 ISSUE DATE : May 3, 2005  
 INVENTOR(S) : Beard, et al.

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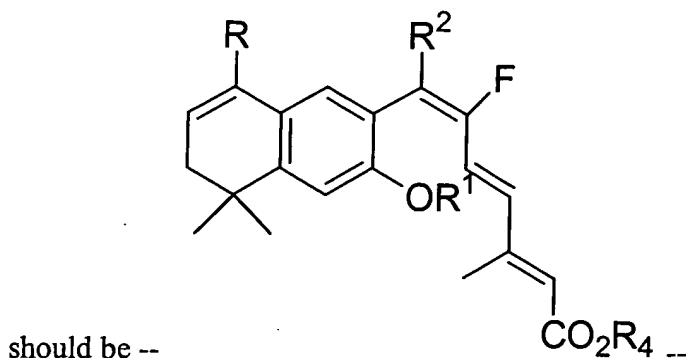
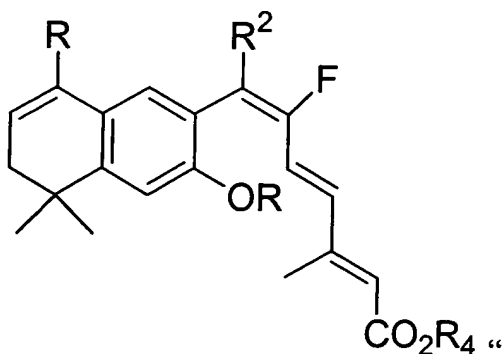
UNITED STATES PATENT AND TRADEMARK OFFICE  
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Page 24 of 24

PATENT NO. : 6,887,896  
APPLICATION NO.: 10/696,748  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Beard, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 149, claim no. 42, (application page 218, claim no. 42)



should be --

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